

Patent Claims:

1. A mixture of finely ground waxes comprising two or more components A, B, C, and/or D, wherein ester waxes are used as component A, amide waxes are used as component B, hydrocarbon waxes are used as component C, and oxidized long-chain hydrocarbon waxes are used as component D.
5
2. The mixture of finely ground waxes as claimed in claim 1, wherein the ester waxes are natural ester waxes or synthetic ester waxes.
10
3. The mixture of finely ground waxes as claimed in claim 1 or 2, wherein the natural ester waxes are montane waxes, carnauba wax, candelilla wax, and/or sugarcane wax.
15
4. The mixture of finely ground waxes as claimed in one or more of claims 1 to 3, wherein the montane waxes are montane wax acid, derivatives of montane wax acid, e.g. esters of montane wax acid, soaps of montane wax acid, esteramides of montane wax acid, and/or a mixture of derivatives of montane wax acid with long-chain fatty acids.
20
5. The mixture of finely ground waxes as claimed in one or more of claims 1 to 3, wherein the synthetic ester waxes are sorbitan esters of saturated fatty acids, esters of polyols, such as pentaerythritol, glycerol, trimethylolpropane, with long-chain fatty acids and/or their mixtures.
25
6. The mixture of finely ground waxes as claimed in one or more of claims 1 to 5, wherein the synthetic ester waxes are copolymers composed of long-chain olefins having from 5 to 18 carbon atoms and of unsaturated acids, such as acrylic acid, methacrylic acid, maleic anhydride, itaconic acid, and/or derivatives of these acids.
30
- 35 7. The mixture of finely ground waxes as claimed in one of more of claims 1 to 6, wherein the derivatives are methyl, ethyl, butyl, and/or 2-ethylhexyl esters of acrylic acid, methacrylic acid, maleic anhydride, and/or itaconic acid.

8. The mixture of finely ground waxes as claimed in one or more of claims 1 to 7, wherein the copolymers are copolymers whose carboxy functionality has been modified via reaction with long-chain alcohols, with perfluoroalkyl alcohols, with short-chain amines, and/or with long-chain amines.
5
9. The mixture of finely ground waxes as claimed in one or more of claims 1 to 8, wherein the long-chain alcohols are tallow fatty alcohol, coconut fatty alcohol, and/or oxo alcohols.
10
10. The mixture of finely ground waxes as claimed in one or more of claims 1 to 9, wherein the perfluoroalkyl alcohols are C₈-C₁₈-perfluoroalkylpropanol and/or narrower cuts of these alcohols.
15
11. The mixture of finely ground waxes as claimed in one or more of claims 1 to 10, wherein the short-chain amines are butylamine, dimethylaminopropylamine, diethylaminoethanol, tetramethylpiperidinol, and/or diacetonediamine.
20
12. The mixture of finely ground waxes as claimed in one or more of claims 1 to 11, wherein the long-chain amines are tallow fatty amine, octylamine, palmitylamine, and/or stearylamine.
25
13. The mixture of finely ground waxes as claimed in one or more of claims 1 to 12, wherein the amide waxes are reaction products of an amine component and of long-chain fatty acids or hydroxy fatty acids, and/or their mixtures.
30
14. The mixture of finely ground waxes as claimed in one or more of claims 1 to 13, wherein the amine components are ethylenediamine, and/or hexamethylenediamine.
35
15. The mixture of finely ground waxes as claimed in one or more of claims 1 to 12, wherein the amide waxes are reaction products composed of ammonia and of long-chain fatty acids, or hydroxy fatty acids, and/or their mixtures.
16. The mixture of finely ground waxes as claimed in one or more of

claims 1 to 12, wherein the amide waxes are reaction products composed of long-chain amines, such as hydrogenated tallow fatty amine, stearylamine, palmitylamine, coconut fatty amine, and of long-chain fatty acids or hydroxy fatty acids, and/or their mixtures.

5

17. The mixture of finely ground waxes as claimed in one or more of claims 1 to 16, wherein the hydrocarbon waxes are polyethylene waxes.
- 10 18. The mixture of finely ground waxes as claimed in one or more of claims 1 to 17, wherein the polyethylene waxes are polyethylene waxes which have been prepared by the Ziegler process or by means of metallocene technology.
- 15 19. The mixture of finely ground waxes as claimed in one or more of claims 1 to 17, wherein the polyethylene waxes are Fischer-Tropsch waxes.
- 20 20. The mixture of finely ground waxes as claimed in one or more of claims 1 to 19, which comprises
from 5 to 99% by weight of component A
from 0 to 95% by weight of component B
from 0 to 95% by weight of component C
from 0 to 95% by weight of component D,
where the entirety of the components is 100% by weight.
- 25 21. The mixture of finely ground waxes as claimed in one or more of claims 1 to 20, which comprises
from 40 to 90% by weight of component A
from 0 to 60% by weight of component B
from 0 to 60% by weight of component C
from 0 to 60% by weight of component D,
where the entirety of the components is 100% by weight.
- 30 35 22. The use of mixtures of finely ground waxes as claimed in one or more of claims 1 to 21 as additive in printing inks, powder coatings, or other coatings.
23. The use of mixtures of finely ground waxes as claimed in one or

more of claims 1 to 21 for the dispersion of pigments and of additives in plastics.

24. The use of mixtures of finely ground waxes as claimed in one or more of claims 1 to 21 as hydrophobicizing additive in crop-protection preparations.
25. The use of mixtures of finely ground waxes as claimed in one or more of claims 1 to 21 as lubricant in plastics.